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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/667,014 09/17/2003		John M. Calico	034726/261916	9128	
1342	7590	02/09/2006		EXAMINER	
PHILLIPS	LYTLE	LLP	PHAN, THIEM D		
		OPERTY GROUP		ART UNIT	PAPER NUMBER
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BUFFALO	, NY 142	203-3509	3729		

DATE MAILED: 02/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

C

	Application No.	Applicant(s)				
	10/667,014	CALICO, JOHN M.				
Office Action Summary	Examiner	Art Unit				
	Tim Phan	3729				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was precised to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tirr rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 11/17	<u>7/06</u> .					
,	- · · · · · · · · · · · · · · · · · · ·					
3) Since this application is in condition for allowar	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 31 and 34-37 is/are pending in the ap 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 31,34-37 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the the definition of	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:	(PTO-413) ate Patent Application (PTO-152)				

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DETAILED ACTION

1. The amendment filed on 11/17/05 has been fully considered and made of record.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 31 and 34-36 are rejected under 35 U.S.C. 102(b) as being anticipated by Huang et al (US 5,592,731).

As applied to claim 31, Huang et al teach a method of constructing a stator, comprising:

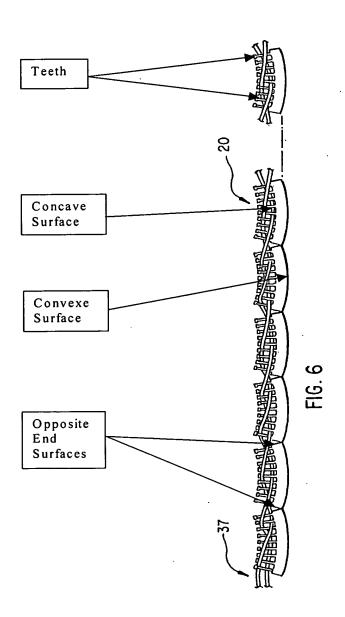
- forming a plurality of arcuate stator segments (Fig. 6, 20), each segment having a concave surface (Fig. 6, see below), a convex surface(Fig. 6, see below), opposite end surfaces(Fig. 6, see below), and a plurality of teeth (Fig. 6, see below) extending inwardly from said concave surface;
- providing a separate electrical winding (Fig. 6, 37) for each segment, each winding
 having different portions that are arranged adjacent said concave, convex and end
 surfaces of the winding, said winding being adapted to be selectively energized to form a

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three-dimensional magnetic field about said segment;

- assembling said segments to form an annular stator (Fig. 5, 50); and
- placing a rotor within said stator (Abstract), said stator having at least two magnetic poles
 (Col. 2, lines 12-15) that are arranged to interact with the magnetic field in said stator.



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As applied to claim 34, Huang et al teach that the winding (Fig. 6, 37) is embedded

within the associated stator segment.

As applied to claim 35, Huang et al teach that the winding (Fig. 6, 37) is mounted on the

associated stator segment.

As applied to claim 36, Huang et al teach that the rotor has a permanent magnet (Col. 2,

lines 12-14), and wherein said magnetic poles on said rotor are created by the poles on said

magnet.

As applied to claim 37, Huang et al teach that the single phase current to each stator

winding is different from the phase of the current supplied to the winding of each adjacent

segment as the windings through the poles of each adjacent segment (Fig. 6, 20) are different

from each other (Fig. 6, 37).

Response to Arguments

4. Applicant's arguments (filed on 11/17/05) with respect to claims 31 and 34-36 have been

considered but are most in view of the new grounds of rejection.

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Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Applicants' amendment necessitated the new grounds of rejection presented in this Office Action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicants are reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tim Phan whose telephone number is 571-272-4568. The examiner can normally be reached on M - F, 9AM - 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the

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organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tim Phan Examiner Art Unit 3729

tp February 3, 2006

A. DEXTER TUGBANG